

Exploring the Development of the Internet of Things from the Perspective of Industrial Economics

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Abstract: The Internet of Everything has been gradually put forward as early as a few years ago, and the Internet of Things is the key to realize the Internet of Everything, which can link people, things and machines. Under the development of China's economy, the development speed of the Internet of Things is increasing, but after the initial development stagnation, this is because of the development of the dilemma, obstacles, such as the Internet of Things in the economic model of a single, unreasonable structure and other issues that make the industry can not be further developed, and industrial economics can be analyzed from all aspects of the Internet of Things industry, research on the development of the Internet of Things road, to provide strategies for its development. Therefore, from industrial economics for the Internet of Things to explore the development of Internet of Things.

Keywords: Industrial Economics; Internet of Things; Development Discussion

Introduction

The Internet of Things (IoT) was initially developed in the field of media, and appeared in the change and improvement of information technology means, realizing the direct interconnection of independently addressable objects, and promoting the development of AI technology and big data. Industrial economics is a kind of applied economics and an emerging discipline, therefore, its disciplinary foundation is relatively weak, lack of experience in practical exploration, and insufficient comprehensive popularization; although industrial economics appeared late, it has a relatively deep history, and the emergence of its ideology can be traced back to the Spring and Autumn Period and the Warring States Period of our country, such as agricultural suppression of commerce and agriculture-based thinking, which is the essence and ideas of industrial economics; the road to modernity, the Internet of Things is the first time to realize direct connectivity of independently addressable objects to promote the development of AI technology and data. Road modern, industrial economics research can be for the Internet of Things and other industrial mining, to understand the dynamic development of the industry, mining the law, in-depth analysis, in order to promote the sustainable development of the industry.

1. The meaning of the Internet of Things (IoT) and an analysis of its development

1.1 Meaning

The Internet of Things, as its name suggests, is the interconnection of everything, which is a way to realize the link between things, which can connect people, machines, and things together, so that they can connect with each other anytime, anywhere, and it is based on the basis of the Internet to realize the interconnection of everything, so that the scope of the link between things can be extended and enlarged. For example, the Internet of things through the information sensing technology, in order to obtain product information, and through the intelligent control system, to realize the production, processing, operation and other aspects of the intelligent, and then for example, the Internet of things through the big data to the end-users to provide the demand for the product information, the user can learn whether the product is still available, roughly when to arrive, the quantity of the product, the quality of the product and so on the information, will be the fusion of many emerging technologies, which is also the new direction of development, is conducive to the enhancement of technology, and is also the subsequent The new direction of development is conducive to technological upgrading and innovation.

1.2 Development analysis

At this stage, the development of the Internet of things is in the field of high-tech development, strict requirements for researchers,

infrastructure, etc., with the Internet as a carrier, through information technology means to continuously expand the coverage of the Internet of things, to achieve the interconnection of all things. First of all, from the technical aspect, China's Internet of things core technology in the existence of loopholes, the lack of top-level design, due to technical problems make the market share, application promotion, etc. can not play the effect it should have, the lack of coordination mechanism, the introduction of talent and other issues, to be developed and consolidate the results of the waste of resources, can be seen, scientific research has a large space for progress, hindering the development of the Internet of things itself; Secondly, the development of the Internet of Things is inseparable from the Internet of Everything, but China's Internet of Things in the field of resource utilization is low, this is due to the Internet of Things itself, poor industrial planning, coordination mechanism there is a problem of incoherence, while too much research investment, resources can not carry out unified management, resulting in the Internet of Things in the use of energy products have many problems, but also led to the lack of competitiveness of China's Internet of Things in the international arena. Industrial economics can be applied to analyze and explore the problems, solve the problems through suitable means, and promote the enhancement of the Internet of Things industry.

2. Exploring the meaning of industrial economics and the key issues in the development of the Internet of Things (IoT)

2.1 Meaning of industrial economics

Internet of things based on the Internet platform usually has a few big heads, the Internet of things is mainly carried out with these platforms for cooperation, and this will lead to economies of scale, but the competitive energy of the enterprise and its conflict, Marshall's problem, and the theory of industrial organization can solve this problem. The logical starting point of industrial economics is industry, mainly using econometrics and other research on science and technology, mobile elements (such as labor), the dynamic law, the object of its research is industry, including structure, development, policy, layout and organization, etc., to explore the changes in the organizational structure of enterprises under the center of the industrialization of economic development, inter-industrial relations structure, etc., and to provide the theoretical basis for the development of the industry, policy, industrial economics is a kind of meso-economy, which will be the main platform to carry out the development of the industry, and this will lead to the scale economy effect. Economy is a kind of meso-economy, linking macro and micro, in which.

2.2 Enhance core technology and carry out innovation

In the development of Internet of Things, technology is the absolute core, so we need to pay attention to the development of technology and strengthen the improvement of the Internet of Things system. First of all, to understand the technical difficulties and bottlenecks in the development of Internet of Things, to understand the emerging technology of Internet of Things through overseas study, overseas high-precision technicians, academic seminars, etc., to explore how to overcome the core technical difficulties for the development of the Internet of Things to provide a new impetus to the development of the Internet of Things, and to help the sustainable development of the Internet of Things. Internal technical exchanges can also be carried out to enhance the professional and technical capabilities of internal personnel to promote the development of the Internet of things. Innovation is a very important item in the development of technology, and it is even more important for the Internet of Things, which is based on a variety of high-precision technology industry chain. In the daily development of the platform, it is necessary to think about how to realize better understanding, management and distribution between things, for example, in the Internet of Things, the intelligent management platform is very important, which can make the resources and information efficiently shared and intelligently distributed to realize the interaction and distribution of every link in the Internet of Things industry. For example, in the Internet of Things, the intelligent management platform is very important, which can make resources and information be shared efficiently and distributed intelligently, and realize the interaction of each link in the industry as well as the linkage of each department.

2.3 Enhance IoT security awareness

The Internet of Things is now the application of most of the technology for the existing technology, some companies so that its security awareness is weak, but in fact this is a very important one, the Internet of Things will be essential to contact the information of various

enterprises, personal user information, etc., if there is a malicious attack will be serious losses, so the need to strengthen the security precautions. RFID, self-healing function of these two technologies is very critical, enterprises should be updated to its research and development, to strengthen security.

2.4 Directions for Inquiry in Industrial Economics

Nowadays, there are three problems in China's industrial economics theory direction research, the first is that the research idea should be open, avoiding research from a single perspective, often from a macro perspective, such a situation will hinder the in-depth study of the industrial structure, ignoring the details of the part, resulting in the final theory of industrial economics appear many loopholes. As mentioned above, the Internet of things is a kind of meso-economy, between the macro and micro, so in the industrial economics of the Internet of things development inquiry, but also need to carry out analysis from the micro perspective, comprehensive and thorough analysis of industrial structure and other issues. Secondly, industrial economics is relatively more advanced in the developed countries in the West, China can learn from its research methods, with the help of game theory has a point of view, in order to avoid the economic development of the wrong cognition that may occur, at the same time, China's industrial economics research is relatively unsatisfactory, this is because many people are based on the theory of investigation and analysis, but in fact, real life is just like the "butterfly wings", there are due to the accidental development of the Internet of Things. In fact, real life is just like "butterfly wings", there are accidents due to the influence of accidental external forces, and it is difficult to find solutions to problems if practical research is not carried out. Finally, the Internet of Things presents gradient characteristics, for example, the difficulty of prescriptive analysis is gradient, and the prediction of the future development of the Internet of Things is gradient.

3. Conclusion

In summary, it can be seen that the Internet of things is a major expansion and upgrading of the Internet, for social and economic development has a very big impact, at this stage how to better use the Internet to carry out industrial upgrading is very important. Industrial economics analysis to explore the development of the Internet of things found that the Internet of things exists in technological innovation, security awareness is weak and other issues, the need for further improvement, to promote better and faster development of the Internet of things.

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